



Index of Claims 	Application/Control No. 09584796	Applicant(s)/Patent Under Reexamination LINDQVIST ET AL.
	Examiner ALEXANDER JAMAL	Art Unit 2614


✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

<input type="checkbox"/> Claims renumbered in the same order as presented by applicant			<input type="checkbox"/> CPA			<input type="checkbox"/> T.D.			<input type="checkbox"/> R.1.47			
CLAIM			DATE									
Final	Original		07/13/2009									
1	1	=										
	2	-										
2	3	=										
3	4	=										
4	5	=										
5	6	=										
6	7	=										
	8	-										
7	9	=										
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32	35	=										
33	36	=										

<i>Index of Claims</i> 	Application/Control No. 09584796	Applicant(s)/Patent Under Reexamination LINDQVIST ET AL.
	Examiner ALEXANDER JAMAL	Art Unit 2614

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<input type="checkbox"/> Claims renumbered in the same order as presented by applicant				<input type="checkbox"/> CPA				<input type="checkbox"/> T.D.				<input type="checkbox"/> R.1.47			
CLAIM			DATE												
Final	Original		07/13/2009												
34	37	=													
35	38	=													
36	39	=													
37	40	=													
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40	43	=													
41	44	=													

Search Notes 	Application/Control No. 09584796	Applicant(s)/Patent Under Reexamination LINDQVIST ET AL.
	Examiner ALEXANDER JAMAL	Art Unit 2614

SEARCHED			
Class	Subclass	Date	Examiner
379	406.08,406.12	7/13/09	/AJ/

SEARCH NOTES		
Search Notes	Date	Examiner
east txt see sr	7/13/09	/AJ/
inventor search	7/13/09	/AJ/

INTERFERENCE SEARCH			
Class	Subclass	Date	Examiner
379	406.08,406.12	7/13/09	/AJ/

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EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
		(379/406.08.ccls.).OCLS.	US-PGPUB; USPAT	OR	OFF	2009/07/13 17:59
		(379/406.08,406.12.ccls.). OCLS.	US-PGPUB; USPAT	OR	OFF	2009/07/13 17:58
		((379/406.08,406.12).ccls.). OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/07/13 17:58
		(379/406.08,406.12.ccls.). OCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/07/13 17:58
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L1	16	((US-5317596-\$ or US-5303264-\$ or US-5285474-\$ or US-5117418-\$ or US-5524149-\$ or US-5787113-\$ or US-6072782-\$ or US-6377683-\$ or US-5793801-\$ or US-5870432-\$ or US-5521908-\$ or US-5181198-\$ or US-5461640-\$ or US-5623513-\$ or US-5917809-\$ or US-5297166-\$).did.	USPAT	OR	OFF	2009/07/13 17:37
L2	185	"16" and matri	USPAT	OR	ON	2009/07/13 17:37
L3	6	((US-5317596-\$ or US-5303264-\$ or US-5285474-\$ or US-5117418-\$ or US-5524149-\$ or US-5787113-\$ or US-6072782-\$ or US-6377683-\$ or US-5793801-\$ or US-5870432-\$ or US-5521908-\$ or US-5181198-\$ or US-5461640-\$ or US-5623513-\$ or US-5917809-\$ or US-5297166-\$).did.) and matri\$5	USPAT	OR	ON	2009/07/13 17:37

L4	5	(echo and cancel\$7).ab. and (dmt and "frequency domain" and isi and ici)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L5	809	echo and cancel\$7 and frequency and dmt	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L6	123	echo same cancel\$7 same frequency same dmt	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L7	16	((US-6377683-\$ or US-5181198-\$ or US-5285474-\$ or US-5117418-\$ or US-5461640-\$ or US-5317596-\$ or US-5303264-\$ or US-5297166-\$ or US-5917809-\$ or US-5870432-\$ or US-5793801-\$ or US-5787113-\$ or US-5623513-\$ or US-5524149-\$ or US-5521908-\$ or US-6072782-\$).did.	USPAT	OR	OFF	2009/07/13 17:37
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L9	16	(echo and cancel\$7 and frequency and dmt).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L10	182	(echo and cancel\$7 and frequency and domain).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L11	16	((echo and cancel\$7 and frequency and domain).ab.) and dmt	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37

L12	0	(dmt and hermitian).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L13	28	(dmt).ab. and hermitian	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L14	20	(dmt).ab. and hermitian and echo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L15	14	"6597745".URPN.	USPAT	OR	OFF	2009/07/13 17:37
L16	6	("5249200" "5878086" "5881108" "5881363" "5946038" "6166601").PN.	USPAT	OR	OFF	2009/07/13 17:37
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L19	23	(adsl.ab. and (echo).ab.) and transform and frequency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L20	7	((transform with echo with (signal estimate) with (time time\$domain)) same subtract	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L21	240	((transform with echo with (signal estimate) with time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
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L24	38	((379/406.01-406.16).CCLS.) and echo and cancel\$7 and frequency and dmt	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L25	2007	(379/406.01-406.16).CCLS.	USPAT; USOCR	OR	OFF	2009/07/13 17:37
L26	1773	(375/285,296).CCLS.	USPAT; USOCR	OR	OFF	2009/07/13 17:37
L27	49	((375/285,296).CCLS.) and echo and cancel\$7 and frequency and dmt	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L28	274	isi with echo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
L29	10	isi with echo with ici	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 17:37
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L36	17	lindqvist.in. and fredrik.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 18:08

L37	7	36 and fertner.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 18:08
L38	0	36 and (isi ici)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 18:09
L39	3	35 and (isi ici)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/07/13 18:09
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S3	6	((US-5317596-\$ or US-5303264-\$ or US-5285474-\$ or US-5117418-\$ or US-5524149-\$ or US-5787113-\$ or US-6072782-\$ or US-6377683-\$ or US-5793801-\$ or US-5870432-\$ or US-5521908-\$ or US-5181198-\$ or US-5461640-\$ or US-5623513-\$ or US-5917809-\$ or US-5297166-\$).did.) and matri\$5	USPAT	OR	ON	2003/10/22 11:10
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S7	16	((US-6377683-\$ or US-5181198-\$ or US-5285474-\$ or US-5117418-\$ or US-5461640-\$ or US-5317596-\$ or US-5303264-\$ or US-5297166-\$ or US-5917809-\$ or US-5870432-\$ or US-5793801-\$ or US-5787113-\$ or US-5623513-\$ or US-5524149-\$ or US-5521908-\$ or US-6072782-\$).did.	USPAT	OR	OFF	2003/10/23 12:33
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S13	11	(dmt).ab. and hermitian	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/10 15:44

S14	7	(dmt).ab. and hermitian and echo	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/10 15:44
S15	0	"6597745".URPN.	USPAT	OR	OFF	2004/05/11 13:32
S16	6	("5249200" "5878086" "5881108" "5881363" "5946038" "6166601").PN.	USPAT	OR	OFF	2004/05/11 13:32
S17	3	adsl.ab. and asynchronous and (echo\$cancel\$4 "echo canceller").ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/12 10:11
S18	67	adsl.ab. and (echo).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/12 10:12
S19	15	(adsl.ab. and (echo).ab.) and transform and frequency	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/12 10:37
S20	1	((transform with echo with (signal estimate) with (time time\$domain)) same subtract	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/12 10:43
S21	147	((transform with echo with (signal estimate) with time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/12 10:50
S22	44	((transform with echo with (signal estimate) with time)) and echo.ab.	USPAT	OR	OFF	2004/05/12 10:44
S23	21	((transform near5 echo near5 (signal estimate) near5 time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/12 10:50
S24	13	((379/406.01-406.16).CQLS.) and echo and cancel\$7 and frequency and dmt	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/12 13:53
S25	1282	(379/406.01-406.16).CQLS.	USPAT; USOCR	OR	OFF	2004/05/12 13:54
S26	979	(375/285,296).CQLS.	USPAT; USOCR	OR	OFF	2004/05/12 13:54

S27	18	((375/285,296).OCLS.) and echo and cancel\$7 and frequency and dmt	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/05/12 13:54
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S50	7	isi with echo with idi	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 12:21
S51	2	"5285474".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/30 12:21

7/ 13/ 09 6:43:44 PM

C:\Documents and Settings\ajamal\My Documents\EAST\Workspaces\09584796.wsp

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1586 U.S. PTO
09/564796
06/01/00

In re Patent Application of

Fredrik LINDQVIST et al.

Atty. Ref.: 1410-679

Serial No.

Group: #4/IDS

Filed: June 1, 2000

Examiner: 2-7-01
A.T.

For: A FREQUENCY DOMAIN ECHO CANCELLER

June 1, 2000

Assistant Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached Form PTO-1449, a copy of each of which is enclosed.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

Respectfully submitted,

NIXON & VANDERHYE P.C.

By: 

John R. Lastova
Reg. No. 33,149

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Arlington, VA 22201-4714
Telephone: (703) 816-4000
Facsimile: (703) 816-4100

INFORMATION DISCLOSURE
CITATION

ATTY. DOCKET NO.

SERIAL NO.

1410-679

APPLICANT

Fredrik LINDOVIST et al.

(Use several sheets if necessary)

FILING DATE

GROUP

June 1, 2000

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

[illegible]

*Examiner

~~/Alexander Jamal/~~

Date Considered

09/09/2009

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-PB-A820 (Also PTO-1449)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Fredrik LINDQVIST et al.

Serial No. 09/584,796

Filed: June 1, 2000

For: A FREQUENCY DOMAIN ECHO CANCELLER



Atty. Ref.: 1410-679

Group: 2731

Examiner:

#5/IDS
2-7-01
A.T.

August 24, 2000

Assistant Commissioner for Patents
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

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As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449, a copy of each of which is enclosed.

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Respectfully submitted,

NIXON & VANDERHYE P.C.

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#7
B.D.
10-2-02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

LINDQVIST et al.

Serial No. 09/584,796

Filed: June 1, 2000

For: A FREQUENCY DOMAIN ECHO CANCELLER



Atty. Ref.: 1410-679

Group: 2731

Examiner:

September 16, 2002

Assistant Commissioner for Patents
Washington, DC 20231

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Sir:

INFORMATION DISCLOSURE STATEMENT

Technology Center 2600

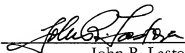
As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the International Search Report and cited references listed on the attached form PTO-1449, a copy of each of which is enclosed.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information referenced herein and attached hereto was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Cited references USP 5,524,149; US 5,787,113, and WO 99/41848 were previously filed in this case on November 29, 2000, and therefore, copies are not provided.

Respectfully submitted,

NIXON & VANDERHYE P.C.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

LINDQVIST et al.

Serial No. 09/584,796

Filed: June 1, 2000

For: A FREQUENCY DOMAIN ECHO CANCELLER

Assistant Commissioner for Patents
Washington, DC 20231



Atty. Ref.: 1410-679

Group: 2731

Examiner:

November 29, 2000

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2-7-01
AT.

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Technology Center 2600

INFORMATION DISCLOSURE STATEMENT

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